

ADVANCES IN CANINE AND FELINE GENOMICS

*Comparative
Genome Anatomy
and
Genetic Disease*

May 16-19, 2002
Millennium Hotel
St, Louis, MO

Thursday May 16, 2002

7:00pm – 9:00pm

Opening Reception/Registration

Friday May 17, 2002

7:30am-8:30am

Registration/Breakfast

8:30am

Welcome – Stephen O'Brien
National Cancer Institute at Frederick

8:45am

Nestlé Purina Welcome - Steven Hannah
Nestlé Purina PetCare Company

8:55am

Keynote Speaker:
An Overview of Comparative Genomics from the Corral Fence
James Womack
Texas A&M University

Session 1: Genomic Maps and Markers in Cats and Dogs

Moderator: Stephen O'Brien

9:40am

High Resolution RH Mapping of the Dog Genome and its Application
to the Positional Cloning of Cancer Genes
Elaine Ostrander
Fred Hutchinson Cancer Research Center

10:00am

Cat Genomics Overview and the Status of the Genetic Linkage
Map in the Domestic Cat
Marilyn Menotti-Raymond
National Cancer Institute at Frederick

10:20am

Comparison of the Efficiency of the Multimap and TSP/CONCORDE
programs in the Construction of an RH map of the Canine Genome
Francis Galibert
Centre National de la Recherche Scientifique

10:40am

Break

11:10

A second generation radiation hybrid map of the feline genome
William Murphy
National Cancer Institute at Frederick

11:30

The Frequency and Usefulness of Single Nucleotide Polymorphisms
(SNPs) in the Dog Genome
Patrick Venta
Michigan State University

12:00pm

Lunch

Morning Session

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Session 2: Large Scale Genomic Analysis

Moderator: William Murphy

1:00pm

Large Scale Sequencing of Feline Major Histocompatibility
Complex

Naoya Yuhki

National Cancer Institute at Frederick

1:20pm

Canine MHC

John Wagner

Thomas Johnson University

1:40pm

Sequencing and Analysis of Canine ESTs

Richard McCombie

Cold Spring Harbor Laboratory

Session 3: Animal Models of Hereditary Disease

Moderator: Don Patterson

2:00pm

Overview of Genetic Disease Testing

Urs Giger

University of Pennsylvania

2:20pm

The Dog as a Model for Identifying the Gene Defects
Underlying Diseases That Are Genetically Complex:

Lesion-Specific Genetic Defects in

Cardiovascular Development

Don Patterson

University of Pennsylvania

2:40pm

Whole Genome Linkage Studies of Conotruncal Defects in
the CTD Line of Keeshond Dogs

Petra Werner

University of Pennsylvania

3:00pm

Break

3:30pm

Retinal Disease in Cats: An Update on the
Abyssinian Mutant

Kristina Narfström

University of Missouri-Columbia

3:50

Inherited Motor Neuron Disease in Domestic Cats
Similar to Spinal Muscular Atrophy Type III

John Fyfe

Michigan State University

Afternoon Session

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Session

Afternoon

Session 3: Continued

4:10pm

Genetics of Cancer in Dogs

Elaine Ostrander

Fred Hutchinson Cancer Research Center

4:30pm

Familial Canine Dilated Cardiomyopathy

Kathryn Meurs

Ohio State University

4:50pm

Heterogeneity in Cystinuria

Paula Henthorn

University of Pennsylvania

6:30pm – 9:00pm

**Welcome Reception – Nestlé Purina PetCare
Company**

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Morning Session

Saturday May 18, 2002

Breakfast

7:30am-8:30am
Morning Session:

Moderator: Urs Giger

8:30am

AKC/CHF Welcome

Erika Werne

American Kennel Club Canine Health Foundation

8:40am

Winn Feline Foundation Welcome

Janet Wolf

Winn Feline Foundation

8:55am

Keynote Speaker:

A Moving Landscape of Comparative Genomics

Stephen O'Brien

National Cancer Institute at Frederick

Session 4: Evolutionary History of Cats and Dogs I

Moderator: Marilyn Raymond

9:40am

Genetic Diversity of Domestic Cat Breeds

Leslie Lyons

University of California at Davis

10:00am

History of the Development of Purebred Dog Breeds

Debra Lynch

American Kennel Club

10:20am

Break

10:50am

Felidae Evolution

Warren Johnson

National Cancer Institute at Frederick

11:10am

Coat Color Genetics in the Felidae

Eduardo Eizirik

National Cancer Institute at Frederick

Session 5: Comparative Carnivore Genomics Moderator: Steve Hannah

11:30am

Carnivore Chromosome Painting

Bill Nash

H&W Cytogenetic Services

11:50am

A Genome-Scale Comparative Chromosome Map
Between Domestic Cat and Dog Based on Reciprocal
Chromosome Painting

Fengtang Yang

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Afternoon Session

12:10

Canine Cytogenetics – Application to Genome Mapping
and Cancer

Matthew Breen

Fred Hutchinson Cancer Research Center

12:30pm

Lunch

Session 6: Genetic Mapping and Molecular Characterization
Moderator: Urs Giger

2:00pm

Inheritance of Epilepsy in Dogs

Anita Oberbauer

University of California at Davis

2:20pm

Identification of a New Copper Metabolism Gene by
Positional Cloning in a Purebred Dog Population

Bart van de Sluis

University Medical Center Utrecht

2:40pm

Inherited Retinal Diseases in Dogs

Gus Aguirre

Cornell University

3:00pm

Progress in QTL Mapping of Canine Hip Dysplasia

Rory Todhunter

Cornell University

3:20pm

Statistical Analyses on Addison's Disease

Thomas Famula

University of California at Davis

3:40pm

Compulsive Tail Chasing in Bull Terriers

Alice Moon-Fanelli

Tufts University

4:00pm

Poster Viewing Session

6:30pm – 11:00pm

Riverboat Cruise and Dinner

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Sunday, May 19, 2002

7:30am – 8:30am

Breakfast

**Session 7: Evolutionary Analysis of Cats and Dogs II
Moderator: Steve Hannah**

8:30am

The Origin and Evolutionary History of the Dog
Robert Wayne
University of California at Los Angeles

8:50am

TYRPI and *MC1R* Genotypes and Their Effects on Coat
Color in Dogs
Sheila Schmutz
University of Saskatchewan

9:10am

Y Chromosome Haplotype Analysis in Dogs
Danika Bannasch
University of California at Davis

9:30

Break

Session 8: Gene Transfer Moderator: Elaine Ostrander

Morning Session

10:00am

Gene Transfer for Lysosomal Storage Enzyme Diseases
Mark Haskins
University of Pennsylvania

10:20am

Adeno-Associated Virus Mediated Gene Therapy for
Hemophilia B In Inhibitor Prone Dogs
Clint Lothrop
Auburn University

10:40am

Gene Therapy in Canine Models of Retinal
Degeneration
Greg Acland
Cornell University

11:00am

Closing Remarks – Stephen O'Brien